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Corps  
of Engineers  
Wilmington  
District



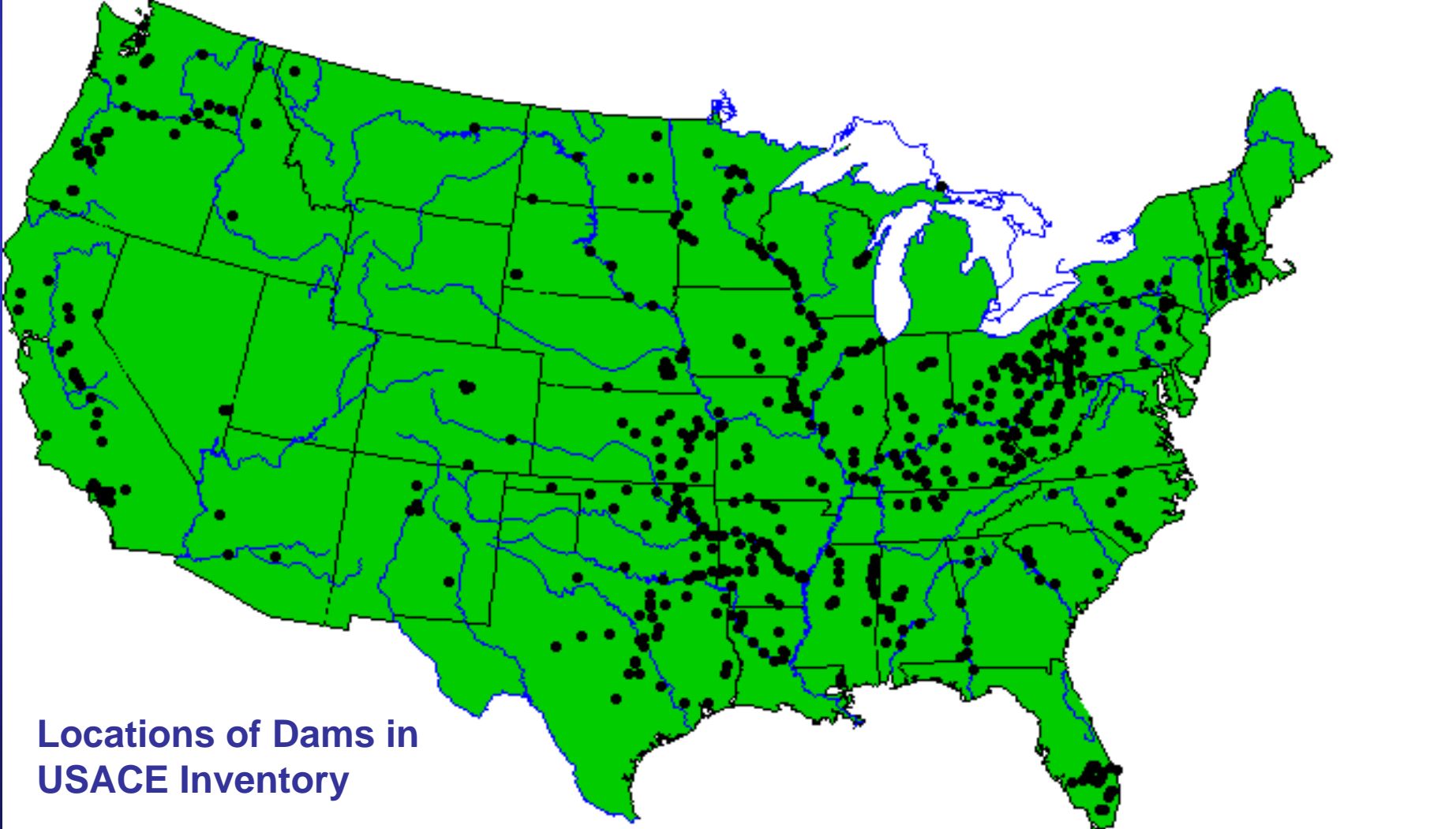
# Wilmington District





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# USACE Dam Safety Program



Locations of Dams in  
USACE Inventory



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# Screening for Portfolio Risk Analysis (SPRA)

- USACE began a risk-informed process in 2005, which considered current dam behavior and potential consequences of dam failure
- The SPRA process for an individual dam is both a relative life risk and relative economic risk
- A classification process was developed to categorize the results and aid in prioritization of specific dam safety actions needed to reduce the overall risk to the portfolio of dams.
- Dam Safety Action Classifications (DSAC):
  - I Urgent and Compelling (Unsafe)
  - II Urgent (Unsafe or Potentially Unsafe)
  - III High Priority (Conditionally Unsafe)
  - IV Priority (Marginally Safe)
  - V Normal (Safe)



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# Corps Lake Projects in North Carolina & Virginia







# Falls Lake – DSAC III



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Falls Dam is structurally sound

Potential for life and economic consequence is high



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# Interim Risk Reduction Measures (IRRM)

- **Structural and Non-Structural IRRM**
  - Seepage/internal erosion
  - Intake tower access/function
  - Slope stability
  - Public awareness
  - Other
- 17 interim risk reduction measures
- Some implemented quickly
- Others will require budgeting and scheduling
- Together these measures will reduce the risk of a dam failure substantially when implemented



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